

Title (en)

Method and device for the speedy drying of a material by application of microwaves.

Title (de)

Verfahren und Vorrichtung zur Schnellstrocknung eines Materiales durch Anwendung von Mikrowellen.

Title (fr)

Procédé et dispositif de séchage rapide d'un matériau par application de micro-ondes.

Publication

EP 0459204 A1 19911204 (EN)

Application

EP 91107727 A 19910513

Priority

FR 9006203 A 19900514

Abstract (en)

The invention concerns a method and a device for the speedy drying of a material by the application of microwaves, the material itself possibly being fragile. The invention concerns a method which consists in the application of microwaves with a quantity of energy enough to bring the temperatures of the surface and/or of the centre of the material up to a determined upper limit which is a function of the nature of the material, in the application thereafter of the microwaves, when the temperature or temperatures fall to a determined lower limit which too is a function of the material, until the temperature or temperatures again reach that upper limit, and in the renewal of the application of the microwaves in the same conditions until the desired degree of humidity is attained. According to the method of this invention the application of microwaves takes place with waveguide means inclined in relation to the plane of positioning of the material, that is to say, inclined according to the inclination of the Brewster angle. <IMAGE>

IPC 1-7

F26B 3/347

IPC 8 full level

F26B 3/34 (2006.01)

CPC (source: EP)

F26B 3/343 (2013.01)

Citation (search report)

- [XD] FR 2076405 A5 19711015 - MATERIEL TELEPHONIQUE
- [AP] FR 2651874 A1 19910315 - CHARPENTE MENUISERIE CHASSENEUILLAISE [FR]
- [A] FR 2147456 A5 19730309 - MATERIEL TELEPHONIQUE
- [A] DE 839773 C
- [A] DE 737820 C 19430724 - SIEMENS AG
- [A] US 3277580 A 19661011 - GEORGE TOOBY
- [A] DE 2431522 A1 19760122 - KLOECKNER HUMBOLDT DEUTZ AG
- [A] FR 2077953 A1 19711105 - PLESS JOHN
- [A] US 4714812 A 19871222 - HAAGENSEN DUANE B [US], et al
- [A] FR 1499628 A 19671027 - PATELHOLD PATENTVERWERTUNG
- [A] DE 3106304 A1 19820218 - TROEBS REINHARD ING GRAD [DE]
- [A] GB 899044 A 19620620 - JOHN HAMILTON STUBBER, et al
- [A] US 3721013 A 19730320 - MILLER D
- [A] FR 820908 A 19371122 - SIEMENS AG

Cited by

FR2704633A1; EP1327844A3; WO2006021231A1; WO0052406A1; WO2019170299A1

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)

EP 0459204 A1 19911204; EP 0459204 B1 19940622; AT E107760 T1 19940715; DE 69102587 D1 19940728; DE 69102587 T2 19941006; ES 2055487 T3 19940816; FR 2661978 A1 19911115; FR 2661978 B1 19940422

DOCDB simple family (application)

EP 91107727 A 19910513; AT 91107727 T 19910513; DE 69102587 T 19910513; ES 91107727 T 19910513; FR 9006203 A 19900514